

WHAT IS CLAIMED IS:

1 1. A system for translating medical data, the system comprising:
2 a first interpretation system, wherein the first interpretation system is operable
3 to receive a first encoded data set received from a first implantable medical device and to
4 provide a first decoded data set;
5 a second interpretation system, wherein the second interpretation system is
6 operable to receive a second encoded data set from a second implantable medical device and
7 to provide a second decoded data set;
8 a first data abstraction engine, wherein the first data abstraction engine is
9 operable to receive the first decoded data set from the first interpretation system;
10 a second data abstraction engine, wherein the second data abstraction engine is
11 operable to receive the second decoded data set from the second interpretation system; and
12 wherein the first data abstraction engine and the second data abstraction
13 engine provide a first abstracted data set and a second abstracted data set, respectively, in a
14 common data format.

1 2. The system of claim 1, wherein the system further comprises:
2 a first communication link, wherein the encoded data set received from the
3 first implantable medical device is received via the first communication link; and
4 a second communication link, wherein the encoded data set received from the
5 second implantable medical device is received via the second communication link.

1 3. The system of claim 2, wherein the first communication link is a server
2 port.

1 4. The system of claim 2, wherein the system further comprises a system
2 server, wherein the system server includes a processor and a computer readable medium, and
3 wherein the computer readable medium includes instructions executable by the processor to:
4 receive the first encoded data set from the one of a plurality of implantable
5 medical device types via a communication network;
6 identify the one of the plurality of medical device types; and
7 communicate the first encoded data set via the first communication link to the
8 first interpretation system.

1 5. The system of claim 4, wherein the computer readable medium further
2 includes instructions executable by the second processor to:
3 store the first encoded data set to a raw database.

1 6. The system of claim 4, wherein the computer readable medium further
2 includes instructions executable by the processor to:
3 receive the first abstracted data set;
4 receive the second abstracted data set; and
5 store the first abstracted data set and the second abstracted data set in a
6 comprehensive database.

1 7. The system of claim 4, wherein the computer readable medium further
2 includes instructions executable by the processor to:
3 receive the first abstracted data set;
4 receive the second abstracted data set;
5 distribute at least a portion of the first abstracted data set and the second
6 abstracted data set to a first recipient; and
7 distribute at least a portion of the first abstracted data set and the second
8 abstracted data set to a second recipient.

1 8. The system of claim 7, wherein the first recipient is a first subset
2 database, and the second recipient is a second subset database.

1 9. The system of claim 7, wherein the first recipient is selected from a
2 group consisting of:
3 a gateway server; and
4 a diagnostic server.

1 10. The system of claim 1, wherein the common data format is a
2 standardized format.

1 11. A system for translating medical data, the system comprising:
2 a data translation system, wherein the data translation system comprises a
3 processor and a computer readable medium, and wherein the computer readable medium
4 includes instructions executable by the processor to:

5 receive an encoded data set from one of a plurality of implantable
6 medical device types via one of a plurality of ports, wherein each of the plurality of
7 ports is assigned to one of the implantable medical device types;
8 select a conversion utility, wherein selection of the conversion utility is
9 based at least in part upon the port via which the encoded data set is received from the
10 one of the implantable medical devices;
11 spawn the conversion utility; and
12 translate the encoded data set to a decoded data set.

1 12. The system of claim 11, wherein the processor is a first processor, and
2 wherein the computer readable medium is a first computer readable medium, wherein the
3 system further comprises a system server, wherein the system server includes a second
4 processor and a second computer readable medium, and wherein the second computer
5 readable medium includes instructions executable by the processor to:
6 receive the encoded data set from the one of a plurality of implantable medical
7 device types via a communication network;
8 identify the one of the plurality of medical device types; and
9 direct the encoded data set to the one of the plurality of ports corresponding to
10 the one of the plurality of implantable medical device types.

1 13. The system of claim 12, wherein the second computer readable
2 medium further includes instructions executable by the second processor to:
3 store the encoded data set from the one of the plurality of implantable medical
4 device types to a raw database.

1 14. The system of claim 11, wherein the computer readable medium
2 further includes instructions executable by the processor to:
3 abstract the decoded data set to an abstracted data set with elements common
4 to each of the plurality of implantable medical device types.

1 15. The system of claim 14, wherein the computer readable medium
2 further includes instructions executable by the processor to:
3 communicate the abstracted data set to a recipient selected from a group
4 consisting of: a system server, a gateway server, and a diagnostic server.

1 16. The system of claim 15, wherein the processor is a first processor, and
2 wherein the computer readable medium is a first computer readable medium, wherein the
3 system server includes a second processor and a second computer readable medium, and
4 wherein the second computer readable medium includes instructions executable by the
5 processor to:

6 receive the abstracted data set; and
7 store the abstracted format data set to a comprehensive database.

1 17. The system of claim 15, wherein the processor is a first processor, and
2 wherein the computer readable medium is a first computer readable medium, wherein the
3 system server includes a second processor and a second computer readable medium, and
4 wherein the second computer readable medium includes instructions executable by the
5 processor to:

6 receive the abstracted data set; and
7 distribute at least a portion of the abstracted data set to a recipient.

1 18. The system of claim 15, wherein the processor is a first processor, and
2 wherein the computer readable medium is a first computer readable medium, wherein the
3 system server includes a second processor and a second computer readable medium, and
4 wherein the second computer readable medium includes instructions executable by the
5 processor to:

6 receive the encoded data set from the one of a plurality of implantable medical
7 device types via a communication network;

8 identify the one of the plurality of medical device types; and

9 direct the encoded data set to the one of the plurality of ports corresponding to
10 the one of the plurality of implantable medical device types.

1 19. The system of claim 14, wherein the computer readable medium
2 further includes instructions executable by the processor to:

3 store the abstracted data set to a storage area selected from a group consisting
4 of: a comprehensive database, and a subset database.

1 20. The system of claim 11, wherein the computer readable medium
2 further includes instructions executable by the processor to:

3 translate the abstracted data set to a selected format data set.

1 21. The system of claim 20, wherein the processor is a first processor, and
2 wherein the computer readable medium is a first computer readable medium, wherein the
3 system further comprises a system server, wherein the system server includes a second
4 processor and a second computer readable medium, and wherein the second computer
5 readable medium includes instructions executable by the processor to:

6 receive the selected format data set; and

7 communicate the selected format data set to a recipient.

1 22. A method for utilizing information from implantable medical devices,
2 the method comprising:

3 providing a first communication link;

4 providing a first conversion utility associated with the first communication
5 link;

6 providing a second communication link;

7 providing a second conversion utility associated with the second
8 communication link;

9 assigning a first group of medical devices to the first communication link;

10 assigning a second group of medical devices to the second communication
11 link;

12 receiving a first data set from a first implantable medical device from the first
13 group of medical devices;

14 communicating the first data set to the first conversion utility via the first
15 communication link, wherein a converted data set is created; and

16 receiving the converted data set.

1 23. The method of claim 22, wherein the first communication link includes
2 a first server port, and wherein the second communication link comprises a second server
3 port.

1 24. The method of claim 22, wherein the method further comprises:

2 receiving the first data set via the first communication link;

3 decoding the first data set to create a decoded data set; and

4 abstracting the first data set to create the converted data set.

1 25. The method of claim 22, wherein the converted data set is an
2 standardized format data set.

1 26. The method of claim 22, wherein the method further comprises:
2 identifying the first data set as originating from an implantable medical device
3 included within the first group of implantable medical devices.

1 27. The method of claim 22, wherein the converted data set is a first
2 converted data set, and wherein the method further comprises:
3 receiving a second data set from a second implantable medical device from the
4 second group of medical devices;
5 communicating the second data set to the second conversion utility via the
6 second communication link, wherein a second converted data set is created; and
7 receiving the second converted data set.

1 28. The method of claim 27, the method further comprising:
2 storing the first converted data set and the second converted data set to a
3 comprehensive database.

1 29. The method of claim 27, the method further comprising:
2 distributing at least a first portion of the first converted data set and the second
3 converted data set to a first recipient; and
4 distributing at least a second portion of the first converted data set and the
5 second converted data set to a second recipient.